





PAGER

Version 3

M 4.7, 2km N of Three Lakes, WashingtonOrigin Time: 2019-07-12 09:51:38 UTC (Fri 02:51:38 local)
Location: 47.8613° N 122.0623° W Depth: 27.0 km

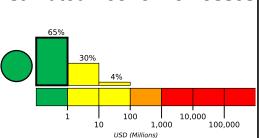
FOR TSUNAMI INFORMATION, SEE: tsunami.gov

Estimated Fatalities 69% 10,000 1,000 100,000

Green alert for shaking-related fatalities and economic losses. There is a low likelihood of casualties and damage.

Estimated Economic Losses

Created: 17 minutes, 59 seconds after earthquake



Estimated Population Exposed to Earthquake Shaking

ESTIMATED POPULATION EXPOSURE (k=x1000)		_*	3,374k	426k	0	0	0	0	0	0
ESTIMATED MODIFIED MERCALLI INTENSITY		I	11-111	IV	V	VI	VII	VIII	IX	X+
PERCEIVE	SHAKING	Not felt	Weak	Light	Moderate	Strong	Very Strong	Severe	Violent	Extreme
POTENTIAL DAMAGE	Resistant Structures	None	None	None	V. Light	Light	Moderate	Mod./Heavy	Heavy	V. Heavy
	Vulnerable Structures	None	None	None	Light	Moderate	Mod./Heavy	Heavy	V. Heavy	V. Heavy

^{*}Estimated exposure only includes population within the map area.

Population Exposure

population per 1 sq. km from Landscan

5000 10000 Burlington 122.0 Mount Vernon Ш Ш 48.2°% Arlington Edmonds Shoreline Redmond

PAGER content is automatically generated, and only considers losses due to structural damage. Limitations of input data, shaking estimates, and loss models may add uncertainty. https://earthquake.usgs.gov/earthquakes/eventpage/at00puiwq1#pager

Structures

Overall, the population in this region resides in structures that are resistant to earthquake shaking, though vulnerable structures exist. The predominant vulnerable building types are unreinforced brick masonry and reinforced masonry construction.

Historical Earthquakes

Date	Dist.	Mag.	Max	Shaking
(UTC)	(km)		MMI(#)	Deaths
1993-03-25	313	5.6	VII(8k)	0
1965-04-29	63	6.5	VIII(131k)	0
1965-04-29	63	6.5	VIII(131k)	7

Recent earthquakes in this area have caused secondary hazards such as landslides and liquefaction that might have contributed to losses.

Selected City Exposure

from GeoNames.org

MMI	City	Population
IV	Monroe	17k
IV	Cathcart	2k
IV	Clearview	3k
IV	Snohomish	9k
IV	Silver Firs	21k
IV	Maltby	11k
IV	Everett	103k
Ш	Bellevue	122k
Ш	Seattle	609k
Ш	Kent	92k
II	Tacoma	198k

bold cities appear on map.

(k = x1000)

Event ID: at00puiwq1